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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/680,757	10/06/2000	Joseph B. Rowlands	5580-00700	2137
34399 7:	590 04/08/2004		EXAMINER	
GARLICK HARRISON & MARKISON LLP			VO, TIM T	
P.O. BOX 1603 AUSTIN, TX			ART UNIT PAPER NUMBER	
, , , , , , , , , , , , , , , , , , , ,			2112	
			DATE MAILED: 04/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
•	09/680,757	ROWLANDS ET AL.
Office Action Summary	Examiner	Art Unit
The MAN INC. A ST. Co.	Tim T. Vo	2112
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on <u>ameronation</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-6,8,10-14,16-22,24-28,30-33 and 35 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6,8,10-14,16-22,24-28,30-33 and 35 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. <u>5-45</u> is/are rejected.	ition.
Application Papers		
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 06 October 2000 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Second is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 15.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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Part III DETAILED ACTION

Notice to Applicant(s)

This application has been examined. Claims 1-6, 8, 10-14, 16-22, 24-28, 30-33, and 35-45 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-6 and 8-34 are rejected under 35 U.S.C. § **102(e)** as being anticipated by Hagersten et al. patent number 5,987,549.

As for claims 1, 10, 16, 24 and 30, Hagersten teaches a system comprising: a bus (see figure 1, bus 20);

a plurality of agents coupled to the bus (see figure 1, board 1 to board N), each of the plurality of agents configured to arbitrate for the bus (see column 5 lines 51-67, wherein each board 50 comprises an address controller 180 which includes an arbitration unit 186 for competing arbitration for sharing the bus), and wherein a

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predetermined first agent of the plurality of agents is to be given default grant of the bus without arbitrating if no other of the plurality of agents for the bus (see figure 1, board 1 to board N and column 7 lines 55-67, wherein the example refers board 0 means the position of the board is in front of the board 1, 2, 3 and on. Further, the example demonstrates the round robin arbitration by making sure that one circuit board will always be a default winner when there are no requests from other boards and the default is the board 0), and wherein the arbitration scheme includes an arbitration priority of the plurality of agents (see column 7 lines 55-67), and wherein the first agent is changed from a current priority in the arbitration priority to a lowest priority in arbitration priority in response to using the bus by default grant (see column 7 lines 55-67, wherein the default winner is board 0 when there are no requests and column 9 lines 37-41, Hagersten teaches when a board wins an arbitration, the winning board will have the lowest priority in the next state).

As for claims 2, 11, 17, 25 and 40-41, Hagersten teaches the first agent is the default winner independent of which the plurality of agents was last to use the bus (see column 7 lines 55-67).

As for claims 3, 13, 18 and 27, Hagersten teaches a plurality of request signals (see figures 4), each of the plurality of the request signals correspondingly to a respective agent of the plurality of agents and used by the respective agent to indicate whether or not the respective agent is arbitrating for the bus (see figure 4), and wherein the first agent is coupled to receive at least one of the plurality of request signals correspondingly to other ones of the plurality of agents (see figures 1, 4), and wherein

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the first agent is configured to determine if none of the plurality of agents is arbitrating responsive to the plurality of request signal (see column 7 lines 55-67).

As for claims 4-5, 12, 19-20, 26 and 32, Hagersten teaches the us is a split transaction bus including an address bus and a data bus (see figure 2, bus 20, including address bus 360, data bus 70), and wherein the first agent is the default winner of the data bus responsive to none of the plurality of agents arbitrating for the data bus (see column 7 lines 55-67).

As for claims 6, 21 and 31, Hagersten teaches wherein the first agent is configured to arbitrate for the bus if at least one other of the plurality of agent is arbitrating for the bus during the arbitration and the first agent has information to transfer on the bus (see column 7 lines 55-67).

As for claims 8, 22, 28 and 33 Hagersten teaches one or more arbiters configured to perform the arbitration (see figure 3, arbiter 186), wherein the one or more arbiters are configured to maintain a state indicative of an arbitration priority of the plurality agents, and wherein an agent winning an arbitration is changed to lowest priority in the arbitration priority (see column 9 line 38-41).

As for claims 14, 35-39 and 42-45, Hagersten teaches the arbiter comprising a storage coupled to the second circuit, the storage storing indication of the relative priority of the other ones of the plurality of agents to the first agent, and wherein the winner of the arbitration is updated to lowest priority (see figures 3-4 and column 9 lines 38-41).

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Response to Amendment

2. Applicant's arguments filed 01/29/04 have been fully considered but they are not persuasive.

3. In response to the applicant's arguments that Hagersten '549 does not teach a predetermined agent to be given default grant of the bus without arbitrating. This limitation already explained in the office action, examiner refers to column 7 lines 55-67 cited "If there are no requests from other boards, the default winner remains the same. Initially, the default winner is board 0". This phrase indicates that the default winner is the board 0 without arbitration needed if there are no other requests.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 703-308-5862. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-305-4815. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tim T. Vo

Primary Examiner

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4/6/04